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\*\* I attest that this following code represents my own work and is subject to

\*\* the plagiarism policy found in the course syllabus.

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\*\* Class: CSC 242

\*\* Assignment: M3.A4

\*\* File: Langston\_M3\_A4.cpp

\*\* Description: This program finds the mode of an array of numbers.

\*\* The array is stored in a vector, the program is capable

\*\* of finding the mode even if the vector values are modified.

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\*\* Date: 02/21/2024

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Pseudocode for project:

Function print number table

Initialize an empty table to count occurrences.

For each number in the input list:

Increment the count for that number in the table.

Print a table header.

For each unique number in the table:

Print the number and its count.

Function mode

Initialize a table to count occurrences.

Initialize variables to store mode and its count.

For each number in the input list:

Increment the count for that number in the table.

If the count is higher than the current mode count:

Update mode and mode count.

Return the mode.

Function main

Create a list of numbers.

Print a title for the program.

Print a description of what the program does.

Print the list of numbers.

Print a table showing the occurrences of each number.

Print the most occurred number (mode)